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% This file extracts generators bid information from zip files
% Only extracts "ENERGY" bids
% see "Bid file notes.tex" for details on information in the zip files

clc;

a = dir('PUBLIC_YESTBID*.zip');       % load file info of all csv files
nof = numel(a);          % number of csv files

for j = 110:nof



unzip(a(j).name);                        % extracts csv file from zip file
b = dir('PUBLIC_YESTBID*.csv');          % get info about csv file
[num, txt] = xlsread(b(1).name);    % num will not have Cols 1 and 2
delete PUBLIC_YESTBID*.csv;                        % delete the csv file
generators = unique(txt(3:end,6));

% Find Sections 1 (price info) and section 2 (quantity info)
temp = txt(:,1);
temp(:,1) = txt(2,1);       % this selects the "I" which indicates Table headings
ind = cellfun(@isequal,txt(:,1),temp);
divisor = (1:length(num))';
divisor = divisor(ind);     % find rows in which the Table headings are

    % indicate begin and end row of Tables 1 and 2
t1b = divisor(1)+1;
t1e = divisor(2)-1;
t2b = divisor(2)+1;
t2e = length(num)-1;

num1 = num(t1b:t1e,:);
txt1 = txt(t1b:t1e,:);

num2 = num(t2b:t2e,:);
txt2 = txt(t2b:t2e,:);

temp1=txt1(:,6);
temp2=txt2(:,6);

clear num txt;

for i=1:length(generators)      % loop through list of generators

   disp([j i]);

   if sum(generators{i}=='/')>0 % eliminate rows (from generator list) that contains↙
a date instead of generator name
        continue
   end

   fname     = ['out_' generators{i}];      % form filename to save the bids

   if exist([fname,'.mat'],'file')          % check if file for this generator↙
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already exists
       eval(['load ' fname]);               % load generator specific file
   end

   % Select from Section 1 - price bands

   temp1(:,1) = generators(i);      % select rows for ith generator
   ind1       = cellfun(@isequal,txt1(:,6),temp1);
   temp1(:,1) = {'ENERGY'};         % select rows for ENERGY only
   ind2       = cellfun(@isequal,txt1(:,7),temp1);
   ind        = and(ind1,ind2);

   if exist('txt1_out','var');      % check whether file alredy exists, if so append
     txt1_out   = [txt1_out; txt1(ind,:)];
     num1_out   = [num1_out; num1(ind,:)];
   else
     txt1_out   = txt1(ind,:);
     num1_out   = num1(ind,:);
   end

   % Select from Table 2 - quantity bands

   temp2(:,1) = generators(i);      % select rows for ith generator
   ind1        = cellfun(@isequal,txt2(:,6),temp2);
   temp2(:,1) = {'ENERGY'};         % select rows for ENERGY only
   ind2       = cellfun(@isequal,txt2(:,7),temp2);
   ind        = and(ind1,ind2);

   if exist('txt2_out','var');      % check whether file alredy exists, if so append
     txt2_out   = [txt2_out; txt2(ind,:)];
     num2_out   = [num2_out; num2(ind,:)];
   else
     txt2_out   = txt2(ind,:);
     num2_out   = num2(ind,:);
   end

   eval(['save ' fname ' txt1_out num1_out txt2_out num2_out']);    % save file
   clear txt1_out num1_out txt2_out num2_out temp ind1 ind2 ind;

end   % end of generator list


clear generators;

end   % end of csv files loop

temp2 = 2;
% end
```